

Please amend the application as follows:

In the Claims

Amend Claims 1 and 17-19 as follows:

1. (Amended) A composition of matter comprising a solid support and a self-assembled monolayer of linear peptides wherein said peptides are bound directly to said solid support through a terminal amino acid in a predetermined pattern which has ordered areas wherein the peptides are bound and not bound to the solid support, and which does not include compositions of matter wherein the peptides are randomly or substantially homogeneously distributed on the solid support.
17. (Amended) A self-assembled monolayer of a chemical reactive moiety on a solid support, the improvement comprising linking said chemical reactive moiety to said solid support through one or more peptide linkages in a predetermined pattern which has ordered areas wherein the peptides are bound and not bound to the solid support.
18. (Amended) A method for manufacturing a composition of matter comprising a solid support and a self-assembled monolayer of linear peptides wherein said peptides are bound directly to said solid support through a terminal amino acid in a predetermined pattern which has ordered areas wherein the peptides are bound and not bound to the solid support, and wherein the peptides are not randomly or substantially homogeneously distributed on the solid support, comprising the steps of:
 - (a) contacting an elastomeric stamp characterized by a relief of said predetermined pattern with a solution containing a compound which can react with said solid support;
 - (b) contacting said stamp with a surface of said solid support under conditions suitable for the reaction between said compound and said solid surface, wherein said compound reacts with said solid support at points of contact between said stamp and said solid support, corresponding to the relief of said predetermined pattern;

- (c) removing said stamp; and
 - (d) contacting said solid support with a solution containing said linear peptides under conditions suitable for the reaction of said [peptide] peptides and said solid support.
19. (Amended) A method for manufacturing a composition of matter comprising a solid support and a self-assembled monolayer of linear peptides wherein said peptides are bound directly to said solid support through a terminal amino acid in a predetermined pattern which has ordered areas wherein the peptides are bound and not bound to the solid support, and wherein the peptides are not randomly or substantially homogeneously distributed on the solid support, comprising the steps of:
- (a) contacting an elastomeric stamp characterized by a relief of said predetermined pattern with a solution containing said linear peptide;
 - (b) contacting said stamp with a surface of said solid support under conditions suitable for the reaction between said linear peptide and said solid surface, wherein said linear peptide reacts with said solid support at points of contact between said stamp and said solid support, corresponding to the predetermined pattern; and
 - (c) removing said stamp.

REMARKS

The remainder of this Amendment is set forth under appropriate subheadings for the convenience of the Examiner.

Applicants' Invention

Applicants' claimed invention is directed to a composition of matter comprising a self-assembled monolayer (hereinafter "SAM") of peptides assembled on a solid support in a predetermined pattern and methods of making the same. The peptides are bound directly to the solid support through a terminal amino acid (see page 3, lines 1-5 and p. 5, lines 12-17 of the specification). Applicants' composition of matter does not include compositions of matter